*CLASS COPY – DO NOT WRITE ON THIS!*

CW#9: Intro to Distance

Geometry

DIRECTIONS: Complete all problems in your notebook. If a problem provides a figure, sketch the figure in your notebook. If the problem asks you to “draw”, draw it in your notebook.

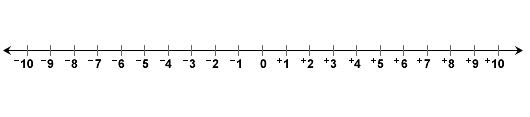
Use the information below to find the lengths of the segments in problems 1-4.

Point A= -2

Point B= -6

Point C= 10

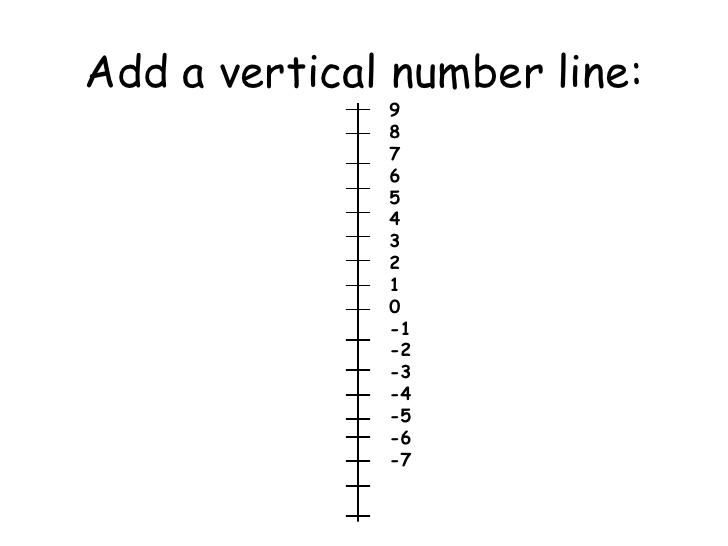
Point D= 4



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| 1. AB | 2. BD |
| 3. AC | 4. BC |

Use the number line to the right to find the lengths of the segments in problems 5-10.

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| --- | --- | --- |
| 5. JM | 6. JK | 7.KP |
| 8. NP | 9. JP | 10. LN |
| 11. How much larger is JK than JM? | 12. How much shorter is NP than LN? | 13. Which segment is longer: MP or KP? |

 Point J= -7

Point K= -4

Point L= -2

Point M= 0

Point N= 3

Point P= 5

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| 14. What is the distance between Point T(0,0) and R(-4,0)? | 15. What is the distance between Point X(0,5) and Y(8,5)? |
| 16. What is the distance between Point K(-2,3) and Q(4,3)? | 17. What is the distance between Point H(4.2) and F(4,6)? |
| 18. What is the distance between Point E(-1,-6) and  A(-1,3)? | 19. Sara found the distance between (-1,4) and  (-1, -2) to be 4. Do you agree with Sara, why or why not? |

|  |  |  |
| --- | --- | --- |
| 22. Find *LM*. | 23. Find *VW*. | 24. Find *YZ*. |

Need more practice? Textbook Page 12 *numbers #1 – 19, 28 – 30*

ACT Style:

|  |  |
| --- | --- |
| 25. | 26. |
| 27. | 28. On a number line, point W is located at -33, point X is located at 8, point Y is located at -17, and point Z is located at 3. Name the longest line segment formed by these points.  A. WX B. XY C. YZ D. WZ E. XZ |